Index to Volume 3

Absorbance of various protein-free filtrates of serum, A, Henry, R. S., and Berkman, S., 711

Acid-base balance, practical evaluation of, 631

Acides du cycle tricarboxylique en chimie clinique, Les (with English summary), NORDMANN, J., and NORDMANN, R., 462

ADAMS, E. S., *see* FREE, A. H.

ALPER, C., and SEITCHIK, J., Comparison of the Archibald-Kern and Stransky colorimetric procedure and the Praetorius enzymatic procedure for the determination of uric acid, 95

Alpha- and beta-lipoprotein cholesterol: Method of rapid quantitative determination, Nury, F. S., and Smith, E. R. B., 119

Amine oxidase, blood, 738

Analysis of Insecticides and Acaricides (book review), 201

APPLETON, H. D., *see* SOBOTKA, H.

ARCHIBALD, R. M., Colorimetric measurement of uric acid, 102

Aspects of recent work on electrolyte metabolism, Stewart, C. P., 294

Autoradiography in Biology and Medicine (book review), 278

B-complex vitamins, 447

BALIKOV, B., Urobilinogen excretion in normal adults: Results of assays with notes on methodology, 145

BALIKOV, B., CASTELLO, R. A., and LOZANO, E. R., Urinary peptide excretion in the burned patient, 217

BARAK, A. J., *see* JACOBI, H. P.

BARAKAT, M. Z., SHEHAB, S. K., and EL-SADR, M. M., New tests for bile and detection of bile in serum and urine, 135

Barbiturate intoxication, chemical findings, 125

BEBER, M., *see* JACOBI, H. P.

BERKMAN, S., *see* HENRY, R. J.

Bile and detection of bile in serum and urine, new tests, 135

Bile, metabolism, 394

Bilirubin, immediate method of determination, 609

Biochemical Disorders in Human Disease (book review), 756

Blood electrolytes, 294, 306, 319, 332

Blood electrolytes under the influence of cortical hormones, Neher, R., 344

Blood urea, turbidimetric method, 291

BLUMENKRANTZ, N., Microtest for mucopolysaccharides by means of toluidine blue: With special reference to hyaluronic acid, 696

BOGGS, J. D., *see* STERN, J. R.

BONAVITA, V., *see* SCARDI, V.

BONDY, P. K., *see* KAFKA, M. S.

BOUTWELL, J. H., Direct nesslerization of blood and urine filtrates in the determination of urea (as ammonia), 205

BOVIS, M., *see* VAN PILSUM, J. F.

BRETON, E. G., *see* O'HAGAN, J. E.

Burned patient, and urinary peptide excretion, 217

Calcium analyses in patients being treated with EDTA, Carr, M. H., and Frank, H. A., 20

CARPENTER, H. J., GOTSIS, A., and HEGSTED, D. M., Estimation of total cholesterol in serum by a micro method, 233

CARR, M. H., and FRANK, H. A., Calcium analyses in patients being treated with EDTA, 20

CASTELLO, R. A., *see* BALIKOV, B.

Cerebrospinal fluid, protein level, an evaluation of some methods of determination, 249

Chemical findings in patients with acute nonfatal barbiturate intoxication, Sunshine, I., and Hackett, E., 125

Cholesterol, 160

Cholesterol in serum (micro method) 226, 233

Cleveland Symposium on Clinical Chemistry Methods, 753

Colorimetric measurement of uric acid, Archibald, R. M., 102

Comparison of plasma uric acid levels obtained with five different methods, Kanabrocki, E. L., Greco, J., Wilkoff, L., and Veatch, R., 156

Comparison of the Archibald-Kern and Stransky colorimetric procedure and the Praetorius enzymatic procedure for the determination of uric acid, Alper, C., and Seitchik, J., 95

Contribution of hemoglobin to acid-base equilibrium of the blood in health and disease, The, Margaria, R., 306

COOK, M. H., *see* FREE, A. H.

Cortical hormones, 344

Determination of ketone bodies in blood and urine by means of vanillin in alkaline medium, Levine, V. E., and Taterka, M., 646

Determination of sulfobromophthalein in serum, Seligson, D., Marino, J., and Dodson, E., 638

Determination of L-tyrosine as tyramine in urine, Tashian, R. E., 106

Determination of uric acid: A note, Hausman, E. R., Lewis, G. T., and McAnally, J. S., 657

N, *N*,-Dimethyl-*p*-phenylenediamine oxidase, 738

Direct nesslerization of blood and urine filtrates in the determination of urea (as ammonia), Boutwell, J. H., 205

DODSON, E., *see* SELIGSON, D.

Effect of various protein precipitants on recoveries of creatinine added to serum, Van Pilsum, J. F., and Bovis, M., 90

Effects of delayed examination on the results of certain hepatic tests, Yonan, V., and Reinhold, J., 685

EL-SADR, M. M., *see* BARAKAT, M. Z.

Electrolyte disturbances in acute uremia, Hamburger, J., 332

Electrolytes, 663

ELKINTON, J. R., The role of magnesium in the body fluids, 319

Enzymes in clinical biochemistry, King, E. J., 507

Epinephrine and norepinephrine concentrations in plasma of humans and rats, Gray, I., and Young, J. G., 239

Esterase activity, photometric procedure, 185

Estimation of total cholesterol in serum by a micro method, Carpenter, K. J., Gotsis, A., and Hegsted, D. M., 283

Experiments of chronic diabetic symptoms caused by xanthurenic acid, an abnormal metabolite of tryptophan, Kotake, Y., 432

FRANK, H. A., *see* CARR, M. H.

FREE, A. H., RUPE, C. O., and METZLER, I., Studies with a new colorimetric test for protein urea, 716

FREE, A. H., ADAMS, E. C., KERCHER, M. L., FREE, H. M., and COOK, M. H., Simple specific test for urine glucose, 163

FREE, H. M., *see* FREE, A. H.

Free amino acids in human blood serum, paper chromatography, 154

GALLOWAY, L. S., NIELSON, P. W., WILCOX, E. B., and LANTZ, E. M., Micro determination of cholesterol by use of 0.04 ml. of blood serum: Adapted from the method of Sperry and Webb, 226

GAST, J. H., 1957 Ernst Bischoff Award, 751

GETCHELL, G., *see* KINGSLEY, G. R.

Glucose, urine, simple specific test, 163

Glutamic-oxalacetic transaminase, method, 703

GOLDBERG, C. A. J., Identification of human hemoglobins, 1

GOLDSCHMIDT, L., A semi-micro technic for the measurement of *N*, *N*-dimethyl-*p*-phenylenediamine (DPP) oxidase in blood, 738

GOLUB, O. J., *see* HENRY, R. J.

GOTSIS, A., *see* CARPENTER, K. J.

GRAY, I., *see* YOUNG, J. G.

GRECO, J., *see* KANABROCKI, E. L.

GUILLOT, M., Standardization in clinical chemistry, 420

HACKETT, E., *see* SUNSHINE, I.

HAMBURGER, J., Electrolyte disturbances in acute uremia, 332

HAMILTON, T., *see* O'HAGAN, J. E.

HAUSMAN, E. R., LEWIS, G. T., and MCANALLY, J. S., Determination of uric acid: A note, 657

HEGSTED, D. M., *see* CARPENTER, K. J.

Hemoglobin, 371
chromatography, 270
contribution to acid-base balance, 306

HENRY, R. J., and BERKMAN, S., Absorbance of various protein-free filtrates of serum, 711

HENRY, R. J., GOLUB, O. J., and SOBEL, C., Some of the variables involved in the fractionation of serum proteins by paper electrophoresis, 49

HENRY, R. J., SOBEL, C., and BERKMAN, S., On the determination of "pancreatitis lipase" in serum, 77

Hepatic tests, 685
HOLTHAUS, J. M., *see* HUMOLLER, F. L.
HUISMAN, T. H. J., The properties, estimation methods, hematologic features, and some other more general aspects of different abnormal human hemoglobins, 371
Human hemoglobins, identification of, 1
Human serum bilirubin: An immediate method of determination and its application to the establishment of normal values, O'Hagan, J. E., Hamilton, T., Breton, E. G., and Shaw, A. E., 609
HUMOLLER, F. L., HOLTHAUS, J. M., and WALSH, J. R., Improved method for the colorimetric determination of glutamic-oxalacetic transaminase activity, 703
Hyaluronic acid, method, 296
Identification of human hemoglobins, Goldberg, C. A. J., 1
Interference of bromide in the Zak ferric chloride-sulfuric acid cholesterol method and means of eliminating this interference, Rice, E. W., and Lukasiewicz, D. B., 160
Introduction to Chemical Pharmacology (book review), 119
Introduction to Blood Group Serology, An, (book review), 758
Isoniazid, method, 728
JACOBI, H. P., BARAK, A. J., and BEBER, M., Practical evaluation of acid-base balance, 631
JESSAR, R., *see* SHAPIRO, B.
JIRGL, V., Paper chromatography of free amino acids in human blood serum, 154
JOSEPHSON, B., Influence of variations in body-fluid volumes on sodium metabolism in man, 663
KAFKA, M. S., and BONDY, P. K., Total neutral 17-ketosteroids: Clinical method for measurement, 178
KANABROCKI, E. L., GRECO, J., WILKOFF, L., and VEATCH, R., Comparison of plasma uric acid levels obtained with five different methods, 156
KERCHER, M. L., *see* FREE, A. H.
Ketone bodies in blood and urine, 646
17-Ketosteroids, method, 178, 624
KING, E. J., Enzymes in clinical biochemistry, 507
KINGSLEY, G. R., and GETCHELL, G., Test-tube extraction method for the micro-determination of urinary 17-ketosteroids, 624
KOTAKE, Y., Experiments of chronic diabetic symptoms caused by xanthurenic acid, an abnormal metabolite of tryptophan, 432
LANTZ, E. M., *see* GALLOWAY, L. S.
LAWRIE, H., A simple turbidimetric method of estimating blood urea, 291
LEVINE, V. E., and TATERKA, M., Determination of ketone bodies in blood and urine by means of vanillin in alkaline medium, 646
LEWIS, G. T., *see* HAUSMAN, E. R.
LICHT, T. S., STERN, M., and SHWACHMAN, H., Measurement of the electrical conductivity of sweat: Its application to the study of cystic fibrosis of the pancreas, 37
Lipase, 77
Lipoprotein cholesterol, 110
Lipoproteins, 577
LOZANO, E. R., *see* BALIKOV, B.
LUGG, J. W. H., *see* VELLA, F.
LUKASIEWICZ, D. B., *see* RICE, E. W.
MCANALLY, J. S., *see* HAUSMAN, E. R.
MACLAGAN, N. F., Mucoprotein estimation in clinical chemistry, 548
Magnesium, 319
MAIS, R. F., *see* STERN, J. R.
MARGARIA, R., The contribution of hemoglobin to acid-base equilibrium of the blood in health and disease, 306
MARINO, J., *see* SELIGSON, D.
Measurement of the electrical conductivity of sweat: Its application to the study of cystic fibrosis of the pancreas, Licht, T. S., Stern, M., and Shwachman, H., 37
Measurement of uric acid in biologic fluids using an ion-exchange separation, Shapiro, B., Seligson, D., and Jessar, R., 169
Medical Research, A Midcentury Survey (book review), 69
MEITES, S., Partition chromatography of organic acids in body fluids with silica gel: Application of the method to normal human urine, 263
MELLOR, L. D., Paper electrophoresis of serum proteins: A note, 195
Methods of Biochemical Analysis (book review), 659

METZLER, I., *see* FREE, A. H.
Micro determination of cholesterol by use of 0.04 ml. of blood serum: Adapted from the method of Sperry and Webb, Galloway, L. S., Nielson, P. W., Wilcox, E. B., and Lantz, E. M., 226
Microtest for mucopolysaccharides by means of toluidine blue: With special reference to hyaluronic acid, Blumenkrantz, N., 696
Minutes of AACC Executive Committee Meeting, 746
Mucopolysaccharides, method, 296
Mucoprotein estimation in clinical chemistry, Maclagan, N. F., 548
Mucoproteins in clinical chemistry, Stary, Z., 557
NEHER, R., Blood electrolytes under the influence of cortical hormones, 344
New colorimetric method for the determination of isoniazid in biologic fluids, A, Scardi, V., and Bonavita, V., 728
New tests for bile and detection of bile in serum and urine, Barakat, M. Z., Shehab, S. K., and El-Sadr, M. M., 135
NIELSON, P. W., *see* GALLOWAY, L. S.
NOBEL, S., A toxicologic service in a general hospital, 732
NORDMANN, J., and NORDMANN, R., Les acides du cycle tricarboxylique en chimie clinique (with English summary) 462
NORDMANN, R., *see* NORDMANN, J.
Note on the Paper Chromatography of Hemoglobins, A, Vella, F., and Lugg, J. W. H., 270
NURY, F. S., and SMITH, E. R. B., Alpha- and beta-lipoprotein cholesterol: Method of rapid quantitative determination, 110
O'HAGAN, J. E., HAMILTON, T., BRETON, E. G., and SHAW, A. E., Human serum bilirubin: An immediate method of determination and its application to the establishment of normal values, 609
On the determination of "pancreatitis lipase" in serum, Henry, R. J., Sobel, C., and Berkman, S., 77
"Pancreatitis lipase" in serum, determination, 77
PAPADOPOULOU, D. B., Urinary sulfur partition in normal men and in cancer patients, 257
Paper chromatography of free amino acids in human blood serum, Jirgl, V., 154
Paper chromatography of hemoglobins, a note, 270
Paper Electrophoresis (book review), 760
Paper electrophoresis of serum proteins: A note, Mellor, L. D., 195
Partition chromatography of organic acids in body fluids with silica gel: Application of the method to normal human urine, Meites, S., 263
Peptide, excretion, 217
Peters, John P., essay on, by Van Slyke, D. D., 287
Photometric procedure for determining esterase activity, Ramsey, H. A., 185
Polarographic Techniques (book review), 70
Polypeptides Which Stimulate Plain Muscle (book review), 70
Practical evaluation of acid-base balance, Jacobi, H. P., Barak, A. J., and Beber, M., 631
Practical Manual of Medical and Biological Staining Techniques, A (book review), 757
Preface, Symposia of International Congress, Sobotka, H., and Appleton, H. D., 285
Presidential address, Routh, J. I., 744
Properties, estimation methods, hematologic features, and some other more general aspects of different abnormal human hemoglobins, The, Huisman, T. H. J., 371
Protein-free filtrates, 711
Protein level in cerebrospinal fluid: An evaluation of some methods of determination, Sethna, S., and Tsao, M. U., 249
Protein "U" and migration ratios, paper electrophoresis, 599
Proteinuria, colorimetric tests, 716
Proteins, paper electrophoresis, 49, 195
RAMSEY, H. A., Photometric procedure for determining esterase activity, 185
REINHOLD, J. G., *see* YONAN, V.
RICE, E. W., and LUKASIEWICZ, D. B., Interference of bromide in the Zak ferric chloride-sulfuric acid cholesterol method and means of eliminating this interference, 160
Role of magnesium in the body fluids, The, Elkinton, J. R., 319

ROUTH, J. I., Presidential Address, 744
RUPE, C. O., *see* FREE, A. H.
SANZ, M. C., Ultramicro methods and standardization of equipment, 406
SCARDI, V., and BONAVITA, V., A new colorimetric method for the determination of isoniazid in biologic fluids, 728
SCHMID, R., Some aspects of bile pigment metabolism, 394
SEITCHIK, J., *see* ALPER, C.
SELIGSON, D., Standardization of methods in clinical chemistry, 425
see also SHAPIRO, B.
SELIGSON, D., MARINO, J., and DODSON, E., Determination of sulfobromophthalein in serum, 638
Semi-micro technic for the measurement of *N, N*-dimethyl-*p*-phenylenediamine (DPP) oxidase in blood, A, Goldschmidt, L., 738
Serum bilirubin, diazo blue reaction, ultramicro method, 22
SETHNA, S., and TSAO, M. U., Protein level in cerebrospinal fluid: An evaluation of some methods of determination, 249
SHAPIRO, B., SELIGSON, D., and JESSAR, R., Measurement of uric acid in biologic fluids using an ion-exchange separation, 169
SHAW. A. E., *see* O'HAGAN, J. E.
SHEHAB, S. K., *see* BARAKAT, M. Z.
SHWACHMAN, H., *see* LICHT, T. S.
Significance of lipoproteins in clinical chemistry, Verschure, J. C. M., 577
Significance of some B-complex vitamins in clinical chemistry, The, Siliprandi, N., 447
SILIPRANDI, N., The significance of some B-complex vitamins in clinical chemistry, 447
Simple specific test for urine glucose, Free, A. H., Adams, E. C., Kercher, M. L., Free, H. M., and Cook, M. H., 163
Simple turbidimetric method of estimating blood urea, A, Lawrie, H., 691
SMITH, E. R. B., *see* NURY, F. S.
SOBEL, C., *see* HENRY, R. J.
SOBOTKA, H., and APPLETON, H. D., Preface, Symposia of International Congress, 285
Some aspects of bile pigment metabolism, Schmid, R., 394
Some of the variables involved in the fractionation of serum proteins by paper electrophoresis, Henry, R. J., Golub, O. J., and Sobel, C., 49
Standardization in clinical chemistry, Guillot, M., 420
Standardization in clinical chemistry, Wootton, I. D. P., 401
Standardization of methods in clinical chemistry, Seligson, D., 425
STARY, Z., Mucoproteins in clinical chemistry, 557
STERN, J. R., MAIS, R. F., and BOGGS, J. D., "U" Protein and migration ratios in paper electrophoresis, 599
STERN, M., *see* LICHT, T. S.
STEWART, C. P., Aspects of recent work on electrolyte metabolism, 294
STONER, R. E., and WEISBERG, H. F., Ultramicro method for serum bilirubin by diazo blue reaction, 22
Studies with a new colorimetric test for proteinuria, Free, A. H., Rupe, C. O., and Metzler, I., 716
Sulfobromophthalein in serum, determination of, 638
Sulfur partition, urinary, 257
SUNSHINE, I., and HACKETT, E. J., Chemical findings in patients with acute nonfatal barbiturate intoxication, 125
Sweat, electrolytes in, 37
TASHIAN, R. E., Determination of L-tyrosine as tyramine in urine, 106
TATERKA, M., *see* LEVINE, V. E.
Test-tube extraction method for the microdetermination of urinary 17-ketosteroids, Kingsley, G. R., and Getchell, Gloria, 624
Total neutral 17-ketosteroids: Clinical method of measurement, Kafka, M. S., and Bondy, P. K., 178
Toxicologic service in a general hospital, A, Nobel, S., 732
Transaminase, method, 703
Tricarboxylic acid cycle, 462
TSAO, M. U., *see* SETHNA, S.
L-Tyrosine, determination of, 106
"U" Protein and migration ratios in paper electrophoresis, Stern, J. R., Mais, R. F., and Boggs, J. D., 599
Ultramicro methods and standardization of equipment, Sanz, M. C., 406
Ultramicro method for serum bilirubin by

diazo blue reaction, Stoner, R. E., and Weisberg, H. F., 22

Urea, blood turbidimetric method, 291
determination of, 205

Uric acid, colorimetric measurement, 95, 102, 156, 169, 657

Urinary peptide excretion in the burned patient, Balikov, B., Castello, R. A., and Lozano, E. R., 217

Urinary sulfur partition in normal men and in cancer patients, Papadopoulou, D. B., 257

Urobilinogen excretion in normal adults: Results of assays with notes on methodology, Balikov, B., 145

VAN PILSUM, J. F., and BOVIS, M., Effect of various protein precipitants on recoveries of creatinine added to serum, 90

VAN SLYKE, D. D., essay on John P. Peters, 287

VEATCH, R., *see* KANABROCKI, E. L.

VELLA, F., and LUGG, W. H., A note on the paper chromatography of hemoglobins, 270

VERSCHURE, J. C. M., Significance of lipoproteins in clinical chemistry, 577

WALSH, J. R., *see* HUMOLLER, F. L.

WEISBERG, H. F., *see* STONER, R. E.

WILCOX, E. B., *see* GALLOWAY, L. S.

WILKOFF, L., *see* KANABROCKI, E. L.

WOOTTON, I. D. P., Standardization in clinical chemistry, 401

Xanthurenic acid, diabetic symptoms, 432

YONAN, V. L., and REINHOLD, J. G., Effects of delayed examination on the results of certain hepatic tests, 685

YOUNG, J. G., *see* GRAY, I.

Contents

NO. 1, FEBRUARY

Identification of Human Hemoglobins — *C. A. J. Goldberg* — 1

Calcium Analyses in Patients Being Treated with EDTA — *Marie H. Carr and Hugh A. Frank* — 20

Ultramicro Method for Serum Bilirubin by Diazo Blue Reaction — *Ramon E. Stoner and Harry F. Weisberg* — 22

Measurement of the Electrical Conductivity of Sweat: Its Application to the Study of Cystic Fibrosis of the Pancreas — *Truman S. Licht, Milton Stern, and Harry Shwachman* — 37

Some of the Variables Involved in the Fractionation of Serum Proteins by Paper Electrophoresis — *Richard J. Henry, Orville J. Golub, and Charles Sobel* — 49

The Clinical Chemist — 65

Book Reviews — 69

Abstracts — 71

NO. 2, APRIL

On the Determination of "Pancreatitis Lipase" in Serum — *Richard J. Henry, Charles Sobel, and Sam Berkman* — 77

Effect of Various Protein Precipitants on Recoveries of Creatinine Added to Serum — *John F. Van Pilsum and M. Bovis* — 90

Comparison of the Archibald-Kern and Stransky Colorimetric Procedure and the Praetorius Enzymatic Procedure for the Determination of Uric Acid — *Carl Alper and Joseph Seitchik* — 95

Colorimetric Measurement of Uric Acid — *R. M. Archibald* — 102

Determination of L-Tyrosine as Tyramine in Urine — *Richard E. Tashian* — 106

Alpha- and Beta-Lipoprotein Cholesterol: Method of Rapid Quantitative Determination — *F. S. Nury and Elizabeth R. B. Smith* — 110

The Clinical Chemist — 116

Book Reviews — 119

Abstracts — 121

NO. 3, JUNE

Chemical Findings in Patients with Acute Nonfatal Barbiturate Intoxication — *Irving Sunshine and Earl Hackett* — 125

New Tests for Bile and Detection of Bile in Serum and Urine — *M. Z. Barakat, S. K. Shehab, and M. M. El-Sadr* — 135

Urobilinogen Excretion in Normal Adults: Results of Assays with Notes on Methodology — *Bernard Balikov* — 145

Paper Chromatography of Free Amino Acids in Human Blood Serum — *Vladimír Jirgl* — 154

Comparison of Plasma Uric Acid Levels Obtained with Five Different Methods — *Eugene L. Kanabrocki, Joseph Greco, Lee Wilkoff, and Roger Veatch* — 156

Interference of Bromide in the Zak Ferric Chloride-Sulfuric Acid Cholesterol Method, and Means of Eliminating This Interference — *Eugene W. Rice and Dolores B. Lukasiewicz* — 160

Simple Specific Test for Urine Glucose — *Alfred H. Free, Ernest C. Adams, Mary Lou Kercher, Helen M. Free, and Marion H. Cook* — 163

Measurement of Uric Acid in Biologic Fluids Using an Ion-Exchange Separation — *Bernard Shapiro, David Seligson, and Ralph Jessar* — 169

Total Neutral 17-Ketosteroids: Clinical Method for Measurement — *Marian S. Kafka and Philip K. Bondy* — 178

MI
15

Photometric Procedure for Determining Esterase Activity — *Harold A. Ramsey* — 185
Paper Electrophoresis of Serum Proteins: A Note — *L. D. Mellor* — 195
The Clinical Chemist — 196
Book Reviews — 201
Abstracts — 202

NO. 4, AUGUST (PART 1)

Direct Nesslerization of Blood and Urine Filtrates in the Determination of Urea (as Ammonia) — *Joseph H. Boutwell, Jr.* — 205
Urinary Peptide Excretion in the Burned Patient — *Bernard Balikov, Robert A. Castello, and Eloy R. Lozano* — 217
Micro Determination of Cholesterol by Use of 0.04 Ml. of Blood Serum: Adapted from the Method of Sperry and Webb — *Leora S. Galloway, Patricia W. Nielson, Ethelwyn B. Wilcox, and Edith M. Lantz* — 226
Estimation of Total Cholesterol in Serum by a Micro Method — *K. J. Carpenter, A. Gotsis, and D. M. Hegsted* — 233
Epinephrine and Norepinephrine Concentrations in Plasma of Humans and Rats — *Irving Gray and James G. Young* — 239
Protein Level in Cerebrospinal Fluid: An Evaluation of Some Methods of Determination — *Shirley Sethna and M. U. Tsao* — 249
Urinary Sulfur Partition in Normal Men and in Cancer Patients — *Daphne B. Papadopoulou* — 257
Partition Chromatography of Organic Acids in Body Fluids with Silica Gel: Application of the Method to Normal Human Urine — *Samuel Meites* — 263
A Note on the Paper Chromatography of Hemoglobins — *F. Vella and J. W. H. Lugg* — 270
The Clinical Chemist — 273
Book Reviews — 278
Abstracts — 279

NO. 4, AUGUST (PART 2)

SPECIAL SUPPLEMENT ISSUE

Papers Presented as Symposia at the International Congress of Clinical Chemistry, September 1956

Preface — *Harry Sobotka and Harold D. Appleton* — 285
John P. Peters — *Donald D. Van Slyke* — 287

BLOOD ELECTROLYTES

Aspects of Recent Work on Electrolyte Metabolism — *C. P. Stewart* — 294
The Contribution of Hemoglobin to Acid-Base Equilibrium of the Blood in Health and Disease — *Rodolfo Margaria* — 306
The Role of Magnesium in the Body Fluids — *J. Russell Elkinton* — 319
Electrolyte Disturbances in Acute Uremia — *Jean Hamburger* — 332
Blood Electrolytes under the Influence of Cortical Hormones — *R. Neher* — 344

PORPHYRINS

The Properties, Estimation Methods, Hematologic Features, and Some Other More General Aspects of Different Abnormal Human Hemoglobins — *T. H. J. Huisman* — 371
Some Aspects of Bile Pigment Metabolism — *Rudi Schmid* — 394

STANDARDIZATION IN CLINICAL CHEMISTRY

Standardization in Clinical Chemistry — *I. D. P. Wootton* — 401
Ultramicro Methods and Standardization of Equipment — *M. C. Sanz* — 406

Standardization in Clinical Chemistry — *Marcel Guillot* — 420
Standardization of Methods in Clinical Chemistry — *David Seligson* — 425

ENZYMES

Experiments of Chronic Diabetic Symptoms Caused by Xanthurenic Acid, an Abnormal Metabolite of Tryptophan — *Yahito Kotake* — 432
The Significance of Some B-Complex Vitamins in Clinical Chemistry — *Noris Siliprandi* — 447
Les Acides du Cycle Tricarboxylique en Chimie Clinique (English summary) — *Jo Nordmann and Roger Nordmann* — 462
Enzymes in Clinical Biochemistry — *E. J. King* — 507

PROTEINS

Mucoprotein Estimation in Clinical Chemistry — *Noel F. Maclagan* — 548
Mucoproteins in Clinical Chemistry — *Z. Stary* — 557
Significance of Lipoproteins in Clinical Chemistry — *J. C. M. Verschure* — 577
Members of the International Congress of Clinical Chemistry, 1956 — 592

NO. 5, OCTOBER

"U" Protein and Migration Ratios in Paper Electrophoresis — *Joel R. Stern, Roland F. Mais, and Joseph D. Boggs* — 599
Human Serum Bilirubin: An Immediate Method of Determination and Its Application to the Establishment of Normal Values — *J. E. O'Hagan, Teresa Hamilton, G. E. Le Breton, and A. E. Shaw* — 609
Test-Tube Extraction Method for the Micro-Determination of Urinary 17-Ketosteroids — *G. R. Kingsley and Gloria Getchell* — 624
Practical Evaluation of Acid-Base Balance — *Herbert P. Jacobi, Anthony J. Barak, and Meyer Beber* — 631
Determination of Sulfobromophthalein in Serum — *David Seligson, Jean Marino, and Elizabeth Dodson* — 638
Determination of Ketone Bodies in Blood and Urine by Means of Vanillin in Alkaline Medium — *Victor E. Levine and Michael Taterka* — 646
Determination of Uric Acid: A Note — *E. R. Hausman, George T. Lewis, and J. S. McAnally* — 657
Book Reviews — 659
Abstracts — 661

NO. 6, DECEMBER

Influence of Variations in Body-Fluid Volumes on Sodium Metabolism in Man — *Bertil Josephson* — 663
Effects of Delayed Examination on the Results of Certain Hepatic Tests — *Virginia L. Yonan and John G. Reinhold* — 685
A Simple Turbidimetric Method of Estimating Blood Urea — *Hubert Lawrie* — 691
Microtest for Mucopolysaccharides by Means of Toluidine Blue: With Special Reference to Hyaluronic Acid — *Nelly Blumenkrantz* — 696
Improved Method for the Colorimetric Determination of Glutamic-Oxalacetic Transaminase Activity — *Fred L. Humoller, Joseph M. Holthaus, and John R. Walsh* — 703
Absorbance of Various Protein-Free Filtrates of Serum — *Richard J. Henry and Sam Berkman* — 711
Studies with a New Colorimetric Test for Proteinuria — *Alfred H. Free, Chauncey O. Rupe, and Ingrid Metzler* — 716

A New Colorimetric Method for the Determination of Isoniazid in Biologic Fluids
Vincenzo Scardi and Vincenzo Bonavita 728
A Toxicologic Service in a General Hospital *Sidney Nobel* 732
A Semimicro Technic for the Measurement of *N,N*-Dimethyl-*p*-Phenylenediamine (DPP) Oxidase in Blood *Leontine Goldschmidt* 738
The Clinical Chemist 744
Presidential Address (*Joseph I. Routh*)
Book Reviews 756
Index 761